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2003

2

OIPE

RAW SEQUENCE LISTING

DATE: 12/17/2001

PATENT APPLICATION: US/10/007,693

TIME: 10:06:41

Input Set : A:\515c2.app

Output Set: N:\CRF3\12172001\J007693.raw

P.S

3 <110> APPLICANT: Bhatia, Ajay
 4 Probst, Peter
 8 <120> TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT
 9 AND DIAGNOSIS OF CHLAMYDIAL INFECTION
 11 <130> FILE REFERENCE: 210121.515C2
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/007,693
 14 <141> CURRENT FILING DATE: 2001-12-05
 16 <160> NUMBER OF SEQ ID NOS: 157
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 19 <211> LENGTH: 1311
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Chlamydia trachomatis
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 26 ctttaactag gagtcatcca tgagtcaaaa taagaactct gctttcatgc agcctgtgaa 180
 27 cgtatccgct gatttagctg ccacgcttgg tgcaggacct atgcctcgca cagagatcat 240
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 30 ccaaatgaca aaaatggttt ctcaacacat cattaaataa aatagaaatt gactcacgtg 420
 31 ttccctcgtct ttaagatgag gaactagttc attctttttg ttcgtttctg tgggtattac 480
 32 tgtatcttta acaactatct tagcagcacc tgttttgaca tgggtttggg ccaatcactt 540
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 35 tgcctttcta aaaaaagtat ctcgtaagat ctcttctctt tctccagata ttcttgatt 720
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 38 ctacgtatcc cgtgatattc acgggaaaaat taataccatc tcagcaatga atagccgtcc 900
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 41 tccatttcaa ttattgcata atcaaagcgc gacactttcc gatacaatca acatcgtggg 1080
 42 attaggcgat ttttttgcca aacaattcga tccccaaaaa gcttttactg actataatcc 1140
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 55 cccaaccaag ctctctgcgg tgcgtaaaaa acctaaattc aaaagaatga ctgcgccgtc 180
 56 atcttcagaa agacgatccg acttccataa ttcgatgtct ttccccatgg ggatctctgt 240
 57 agggagccag ttatttgccg agccattcaa ataatgttcc caagcccatt tgtacttaat 300
 58 aggaacaagt tggttgacat cgacctggtt gcagttcact agacgcttgc tatttagatt 360
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62 gctgaattcc tctcttatta atatctacaa aagatttttc aacggtcgtt gctgatgaag 600
63 atctcagata atacgtagtt ttcaaaccctt ttttccaagc cgttaaatac atattcgaca 660
64 gttttttccc gtctggctgg gcaagataaa gggtgaggga ttgccccata tcaatccatt 720
65 tttgtcttcg agacgcgcac tcgataatcc attctgggtc aatctcaaaa gctgtcaaga 780
66 aaatatgttt taagtgatct ggtatacgtc cgattttcaa taaagaccca tcaaaatatt 840
67 tcaggtcatc taacatatca gcatcccaga tacctaattt cttcaacttc tcaattaaat 900
68 acacatttgg aatcgtgaat tctccggaca aattagactt cacaacaaaa tgtttgtacg 960
69 ttggctcaat agattgagtt actcctataa tgttgagagt cgctcgtgtc ggagctatag 1020
70 ccataagctg acaatgtcgc ataccatgct ctttaaccaa actacggata ggttcccaat 1080
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72 gaatcgtatc aatagggagc aaacctctat cccatttcga tcccttataa gagctgtaag 1200
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74 aactgtagtc agcaaatctt acagcttctt gcgaagcata gcttatatct agcttatata 1320
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76 tagcttcctt tgttgagataa aagttaatat caatcacgtt atccaacata cggactgcta 1440
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83 <213> ORGANISM: Chlamydia trachomatis
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88 tcgagaagag gataagttag atgggcaaat ccctgaagtc ttgatctcag gcaatgcagg 180
89 ggatgttggt ttttccggaa attcctcgaa gcgtgatgag catcttcctc atacaggttg 240
90 gggagccatt tgtactcaaa atttgacgat ttctcagaat acaggggaatg ttctgtttta 300
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92 agaagctttt ggaggagata ttgtttttta aggaaattct tctttcagag cacaaggatc 420
93 cgatgccatc tattttgcag gtaaagaatc gcatattaca gccctgaatg ctacggaagg 480
94 acatgctatt gttttccacg acgcattagt ttttgaaaat ctagaagaaa ggaaatctgc 540
95 tgaagtattg ttaatcaata gtcgagaaaa tccaggttca aaatttctca agtttgatgc 600
96 aattgtgcta ttcgctacct ttagttttct atgtccacgg taaagggatc ggaaagatac 660
97 gcatttattt tcatagtctt tagcttcgat ccctagtgtc tccgcatgga ctgctctgcc 720
98 aagacttttg gttacgaaaa caacaggctc tcgttgagaa atgatttgga gtagctctag 780
99 cgtgagggtg tttttctgtt tctcgtgggt tgaaagattg actagaggag agacttcaat 840
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102 ctttgcgcag gattccaatt cttcgattac tgtaaaaggg ataatgatgc gagtgttaga 1020
103 aaaagaggaa agggccttag gatcgtaa atcaaacgctg gtatcaataa cagagggttt 1080
104 tttcattaca aattcctaaa tgactcaagt gtaaggggga gatagtactt tgattgtgta 1140
105 tcatatccag aaaaattaaa acatgtcttt gttagagaga agtcgggaga gaggggtttt 1200
106 agcaatcaac ctccgcgtgt gctaattctg ttgtcaaaaa tgtaccctt aactacaatg 1260
107 ccgaggaaaag cgagtccttc tgttgagggt tgttatgaaa gtcaaaatta atgatcagtt 1320
108 catttgtatt tccccatata tttctgctcg atggaatcag atagctttca tagagtcttg 1380
109 tgatggaggg acggaagggg gtattacttt gaaactccat ttaattgatg gagagacagt 1440
110 ctctataccc aatctaggac aagcgattgt tgatgagggt ttccaagagc acttgctata 1500

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113 ttctatgtta ctaggaggag ctgggttcgat taatatgttg ttgcaacatt ctccagaaca 1680
114 taaggatcat cctgatcttc ctaccgattt actggagagg atagcgcaaa tgatgcgttc 1740
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116 ttgtcaaat ggacgagcta cagtggaga agaggatgcc ggagtatcgg atgaggatct 1860
117 cacttttcgt tcatgggata tctctcaaag tggagaaaag atgtacactg ttacagatcc 1920
118 tttgaatcca gaagtatacc ttttgttttt tttatacgag ccagcactcc aattttctgac 1980
119 tgtgagaata tatcataaat agaccggcct ctagcgctgc gaatagaaaa agtctttgct 2040
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121 ggattttcat tgtactcatt aaacgagcgg aaaatgaaat tactcaaatt ttcttcagcg 2160
122 ctacacacgc tcaaatcatc gagggaaaacc gtatgagaaa cggatctact cgtgcgcaat 2220
123 tcggcacgag gtctctaata ttgcagaagg agcacaaaatt tttgctgtcc aaggggttaa 2280
124 tactgctgga gaaataggat actgccctcc ttgccctcca gatgcgaagc atcgctatta 2340
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127 <210> SEQ ID NO: 4

128 <211> LENGTH: 1094

129 <212> TYPE: DNA

130 <213> ORGANISM: Chlamydia trachomatis

132 <400> SEQUENCE: 4

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135 ttagctgcac agtagctggg cacagagggg ttcccgtac gtcttaacag atttgtctgg 180
136 acttaacttt tagtgtttgg catcgcaaac agaataattc tgttgcaatg gttttttctt 240
137 aatggaatca aggtgatagt atttgtcgga tggacaagtg tatagagagt atccagtgtc 300
138 tctgtattgg atagactctg ttttgtccta gctggaaagc atctgtcgta ttctgttta 360
139 gagatcacag agggactaaa tagggaaatg gtatcgccaa aagtcttaaa gtcttaggag 420
140 agctcgcatg ttcaagtgcc cggagcgggt cagcgtcaaa aagaaagaag atattttaga 480
141 tcttctaata cttgtcgaag ttcaaatcaa gtcgtataag cagtttcttc aaatcgggaa 540
142 gcttgctgaa gagcgagaaa acattggttt agaagaagtc ttcagagaaa tttccctat 600
143 caagtcttat aatgaagcta cgattttaga gtacctctct tataacttag gagtgcccaa 660
144 ataactccca gaagagtgtt ttcgtcgggg aatcacctat agtgttactt taaaggttcg 720
145 tttccgttta actgatgaaa cggggattaa agaagaagaa gtctatatgg gaaccatccc 780
146 catcatgact cataagggaa cctttattat taatggggca gagagagtcg ttgtttctca 840
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148 attttctttt agaattattc cttatcgagg aagttgggta gaagctgtct tcgacattaa 960
149 tgaccttata tatatccata ttgataggaa aaaacgtcgc agaaagattt tagctattga 1020
150 cgtttatccg agcttttagga tattcaacag atgcagatat tattgaagag ttcttttctg 1080
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153 <210> SEQ ID NO: 5

154 <211> LENGTH: 2129

155 <212> TYPE: DNA

156 <213> ORGANISM: Chlamydia trachomatis

158 <400> SEQUENCE: 5

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160 tagtttttac cacaatgagc ccagaaaacg ctttcgttta ttgaagtttg cacattacaa 120
161 agggccatca tgtttagcaaa aaaacaggat caaaaaaac tatttctcaa gccgcctctt 180
162 ttaaattctta attacaaaaa taaaaatcaa ttcaactttt caaaaaaaga atttaaakat 240
163 taattgttat aaaaacaata tttattataa aataataacc atagttgcgg ggaaatctct 300

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165 gttcaccatt cgttctccga taagcatcct caaattgcta aagctatgcg gattacgggg 420
166 ataaccctcg cagctctatc tctgctcgct gtagtcgcct gcgttattgc cgtctctgcg 480
167 ggaggagctg ccattcctct tgcgtgcatt ggtggaattg ctgcaatgtc tggcctctta 540
168 tccgctgcc aattatctg ttctgcaaaa aaggctctgg ctcaacgaaa acaaaaacaa 600
169 ctagaagagt tgcttccggt agataatgcg accgagcatg tgaattacct gacctcagac 660
170 acctcttatt ttaatcaatg ggaatcctta gatgctctaa ataagcagtt gtctcagatt 720
171 gacttaacta ttcaagctcc cgaaaaaaa ctattaaaag aagttcttgg ttccagatac 780
172 gattccatta atcactccat cgaagagatc tccgctcgct ttacgaaaat gctctctctt 840
173 cttcgattaa gagaacattt ttgctgagga gaagagcgtt atgcccccta tttaagccct 900
174 cctctactta acaagaatcg ttgctgacc caaatcacat ccaatatgat taggatgcta 960
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176 ctatatacag tattgaaagt cgctttatcc ttaggagttc tcgctggagt cgctgctctt 1080
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183 caagatgagg cgctccgttc tcaattagag aaacgagctt acttattccc aattcctaata 1500
184 aacgacgaaa atgctaaaac taaagaatcg cagcttctag actcagaaaa tgattcaaat 1560
185 tctgaatttc aggagattat aaataaaggga ctagaagctg ccaataaacg acgagctgac 1620
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192 ttagataatc actaacggtt cttcataaat gacaaaaaga aaaaggagag ctgttgctgt 2040
193 gctctccttt ttctctaaat attcctgaaa gactaacctt tttatggttg cgttgagcct 2100
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196 <210> SEQ ID NO: 6

197 <211> LENGTH: 1828

198 <212> TYPE: DNA

199 <213> ORGANISM: Chlamydia trachomatis

201 <400> SEQUENCE: 6

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204 ataaaggcat cccaaggaag ccctggaatc acttcatatt ctcccgttgc tagcattcga 180
205 caagggaac caaagattaa atcttccggt aatccatagg gattgtggtc cgaacacact 240
206 ccggaagaaa accattctcc ttcttttggc tgatatattg atcgagcagc ctctgctaaa 300
207 gctcgtgctg cagaagctgc cgaagacttc cctcgtgctt cgattactgc actaccacga 360
208 ctctgtacag aaggcaccat aatattctct aaccaatcac gatccgctat cgtctctgcg 420
209 ataggacggt cattaatcag agcttgcgta aaatcaggca cttgtttggc ggagtgtatt 480
210 ccccaaacca caacttgtga tacagccgat aaaggtactt ctgctctatg cgataacatg 540
211 ctatgcatac gattctgggt caatcgtagc atcgcatgaa agttctttct caataatctg 600
212 ggagcatgat tcattgctat ccagcaattg gtattcacag ggttcccaac aacaaaaatc 660
213 ttgcatccc gcttggtgtg tgtgttcaaa gcttttcctt gcgtagcaaa aatctcccca 720
214 tttttcttta gaagatccct tctctccatt cctgggcttc taggaactga ccctataagg 780

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217 ccaggaatat cgtagatacg cagatcgatg ccacaatcaa ggccaaaaac atctccatga 960
218 gccagagaaa atagaaagct ataggctatt tgccctgttc ctccgtttac tgctacactc 1020
219 actgtttgag aaaccataag ccaccctctc tttactttta caaaacgcac atactctcaa 1080
220 cactacgttt gcaactaact aattttggtc ccaacatacg tttggatgat aaaagaatca 1140
221 agtacctaga ttcttagta aaagcttttg gcaaaaaaaa gctcatctat ttttcaatag 1200
222 atgagccgac ttttaactgaa taagaactta gaaaacttta taaaaaatag gcccggtgta 1260
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224 accgtggaca tctaaaaaac caataaaccg tgcgcgaata aagaacataa agcccctaaa 1380
225 aaaacgattt taagagagaa gtaatagaca gattgtaaca tatttaaaat aaaactctg 1440
226 caaacaiaaaa aactttgcct ggccgtctcc gtagaaagca ctttatgtta aaacgttaaa 1500
227 aagtcttaac atacctcgag ctccgggaaa ctctacagga gcattccccg acatgatgcc 1560
228 tataatttgc gttgccaatt ctttccctaa tgaaacccct tcttgatcaa aagaattgat 1620
229 tccccagcaa aacccttgaa atgcaaattt atgctcataa aaagccaata aactaccagc 1680
230 aatacgagga gaaagctgtt gcgctaccaa tatcgaagaa ggtctgttcc ctttaaacct 1740
231 cttattcggg ttgcattat ctctaccctg agctaaagct aaagattgag caacaagggt 1800
232 tgcaaagagc ttttgagatc tcgtgccg 1828

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234 <210> SEQ ID NO: 7

235 <211> LENGTH: 861

236 <212> TYPE: DNA

237 <213> ORGANISM: Chlamydia trachomatis

239 <400> SEQUENCE: 7

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242 ccacagttac agaaatcgat gagaagcttt ttccctaaga aagatgatgc gtttcatcgg 180
243 tctagttcgc tattctactc tccaatggtt ccgcattttt gggcagagct tcgcaatcat 240
244 tatgcaacga gtggtttgaa aagcgggtac aatattggga gtaccgatgg gtttctccct 300
245 gtcattgggc ctgttatatg ggagtcggag ggtcttttcc gcgcttatat ttcttcgggtg 360
246 actgatgggg atggtaagag ccataaagta ggattttctaa gaattcctac atatagttgg 420
247 caggacatgg aagattttga tccttcagga ccgcctcctt gggaagaatt tgctaagatt 480
248 attcaagtat tttcttctaa tacagaagct ttgattatcg accaaacgaa caaccaggt 540
249 ggtagtgtcc tttatcttta tgcactgctt tccatgttga cagaccgtcc tttagaactt 600
250 cctaaacata gaatgattct gactcaggat gaagtgggtg atgctttaga ttggttaacc 660
251 ctggttgaaa acgtagacac aaacgtggag tctcgccttg ctctgggaga caacatggaa 720
252 ggatatactg tggatctaca ggttgccgag tatttaaaaa gctttggacg tcaagtattg 780
253 aattgttgga gtaagggga tatcagatta tcaacgccta ttcctctttt tggttttgag 840
254 aagattcatt cactcctcg a 861

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256 <210> SEQ ID NO: 8

257 <211> LENGTH: 763

258 <212> TYPE: DNA

259 <213> ORGANISM: Chlamydia trachomatis

261 <400> SEQUENCE: 8

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263 aacgaaacga aaagcttgct aatgaaatt attcacacag ctatcgaatt tgctccggta 120
264 atcaaagccg gaggcctggg agacgcgcta tacggactag caaaagcttt agccgctaatt 180
265 cacacaacgg aagtggtaat ccctttatac cctaaattat ttactttgcc caaagaacaa 240
266 gatctttgct cgatccaaaa attatcttat ttttttgctg gagagcaaga agcaactgct 300
267 ttctcctact tttatgaagg aattaaagta actctattca aactcgacac acagccagag 360

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Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/007,693

DATE: 12/17/2001

TIME: 10:06:43

Input Set : A:\515c2.app

Output Set: N:\CRF3\12172001\J007693.raw

L:13 M:270 C: Current Application Number differs, Wrong Format

L:5632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134